

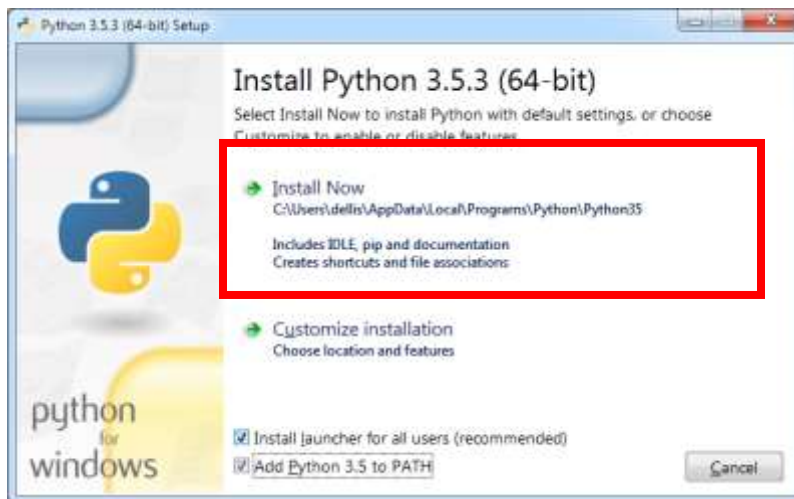
Install Python 3.5 (Windows 7)

Download the Python Software

<https://www.python.org/downloads/release/python-353/>

Install Python

Click Install Now

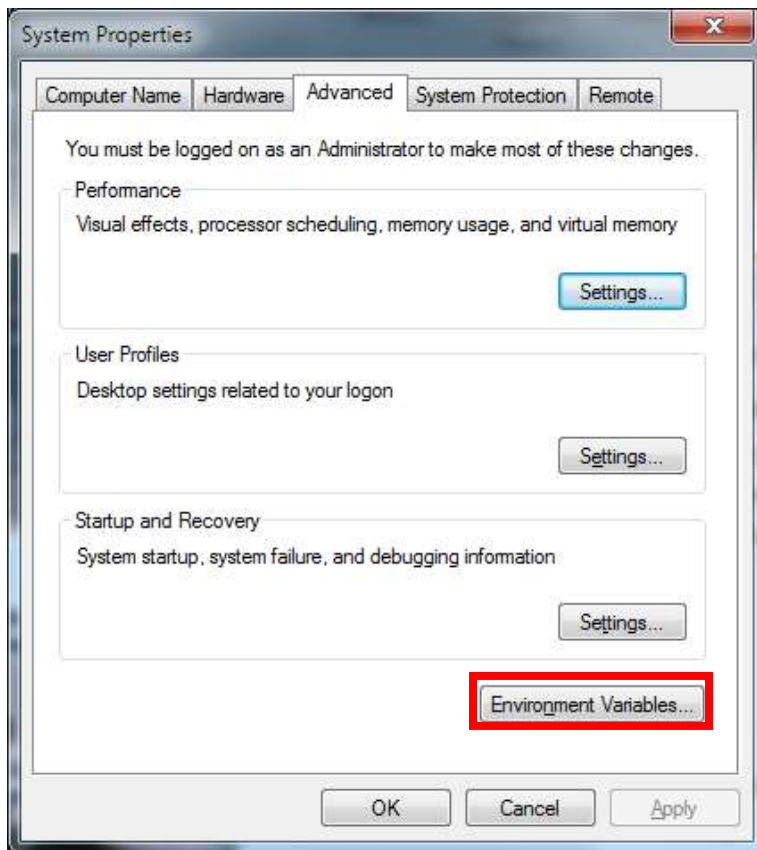


Click Close

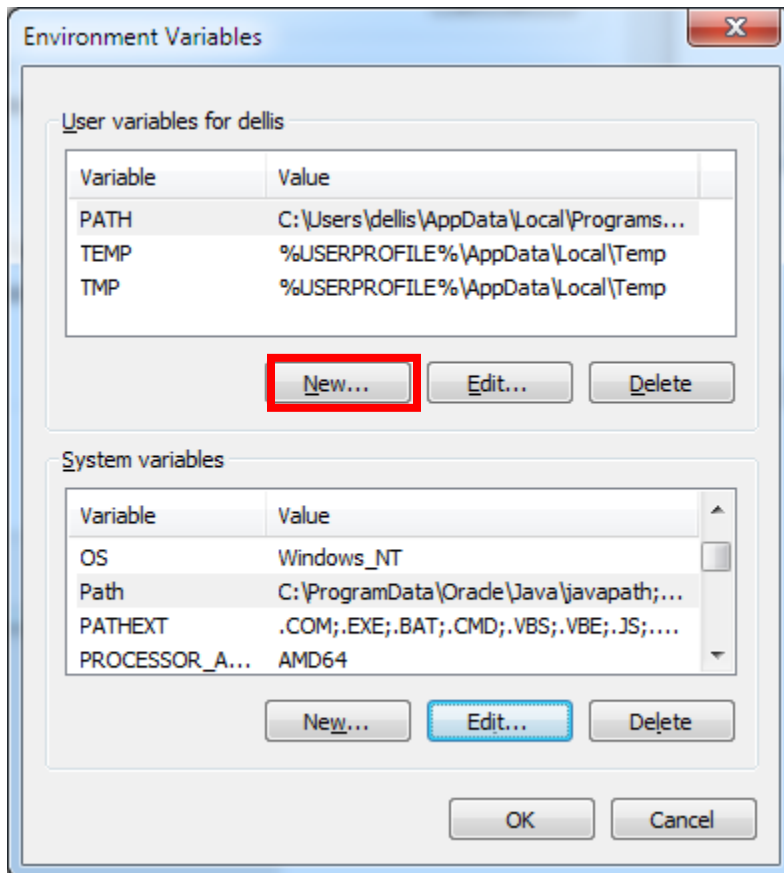


Set your Environment Variable to add Python to the System Path

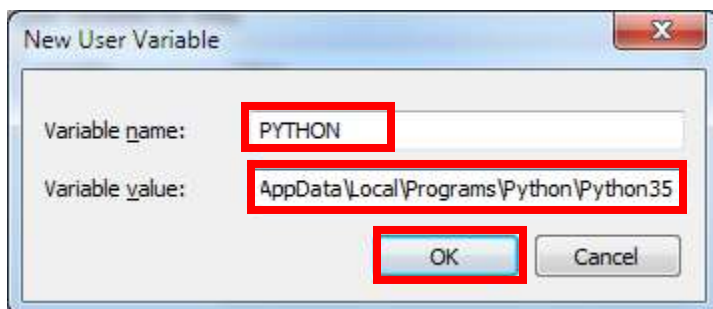
Go to Start -> right click on Computer -> Properties -> Environment Variables



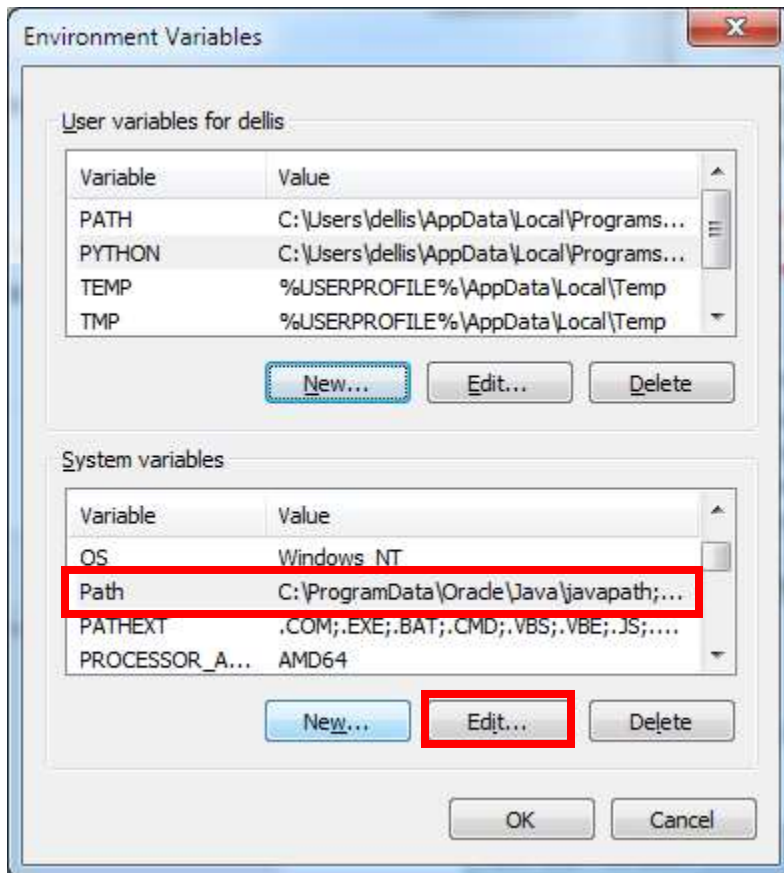
Under User Variables -> Click New



Create a Variable and add the Path. Click OK.

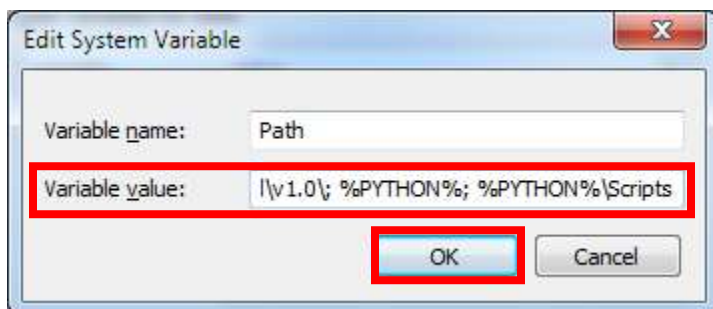


Under System Variables -> Select Path -> Click Edit



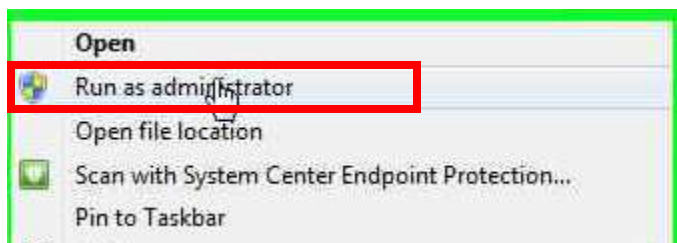
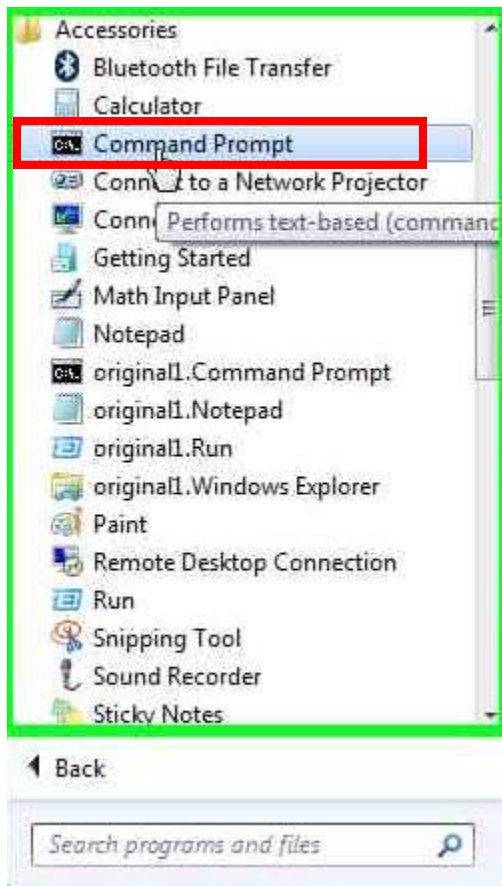
At the end of the Variable Value line:

- Add a ; and space
- Add the variable in this format %variablename%
- Add a ; and space
- Add the variable for the Scripts folder %variablename%\Scripts
- Click OK
- Click OK to close the Environment Variables Window



Open a Command Prompt as Administrator

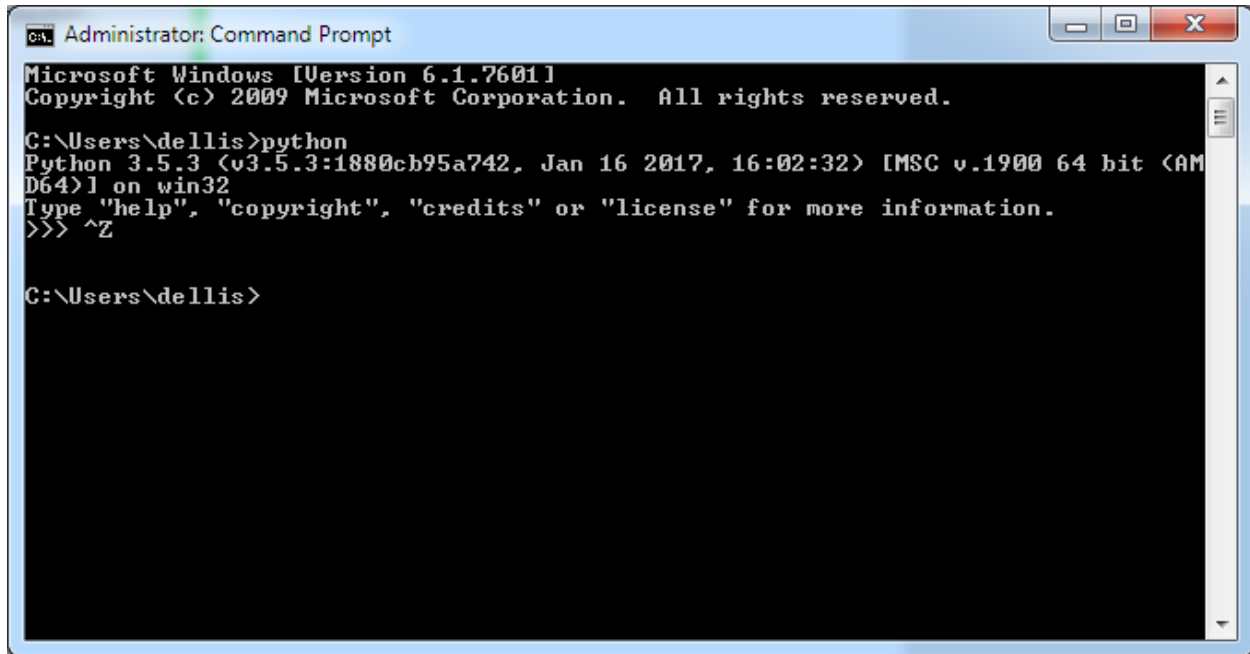
Go to Start -> Programs -> Accessories -> right click on CMD -> Select run as administrator



Note: Click Yes if Prompted

Test Path and install

Type python in the command prompt. This will take you to the Python Shell. Type CTL+z and Enter to exit the shell.



```
Administrator: Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\dellis>python
Python 3.5.3 (v3.5.3:1880cb95a742, Jan 16 2017, 16:02:32) [MSC v.1900 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> ^Z

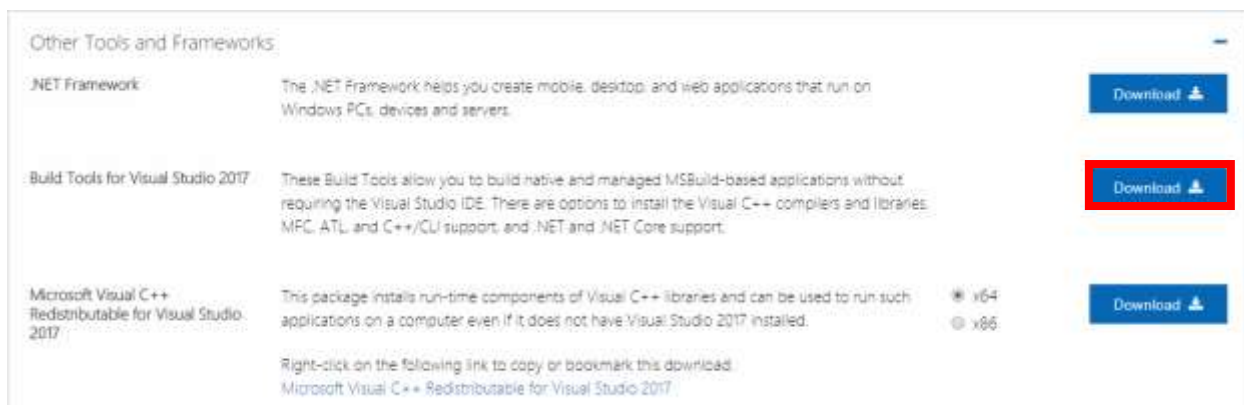
C:\Users\dellis>
```

Install Visual C++ Compiler

Install Visual C++ 14.0 (Visual Studio Build Tools) – Python 3.5

<https://www.visualstudio.com/downloads/#build-tools-for-visual-studio-2017>

Note: If you have Visual Studio installed, this program is already installed. Be sure to check the version.

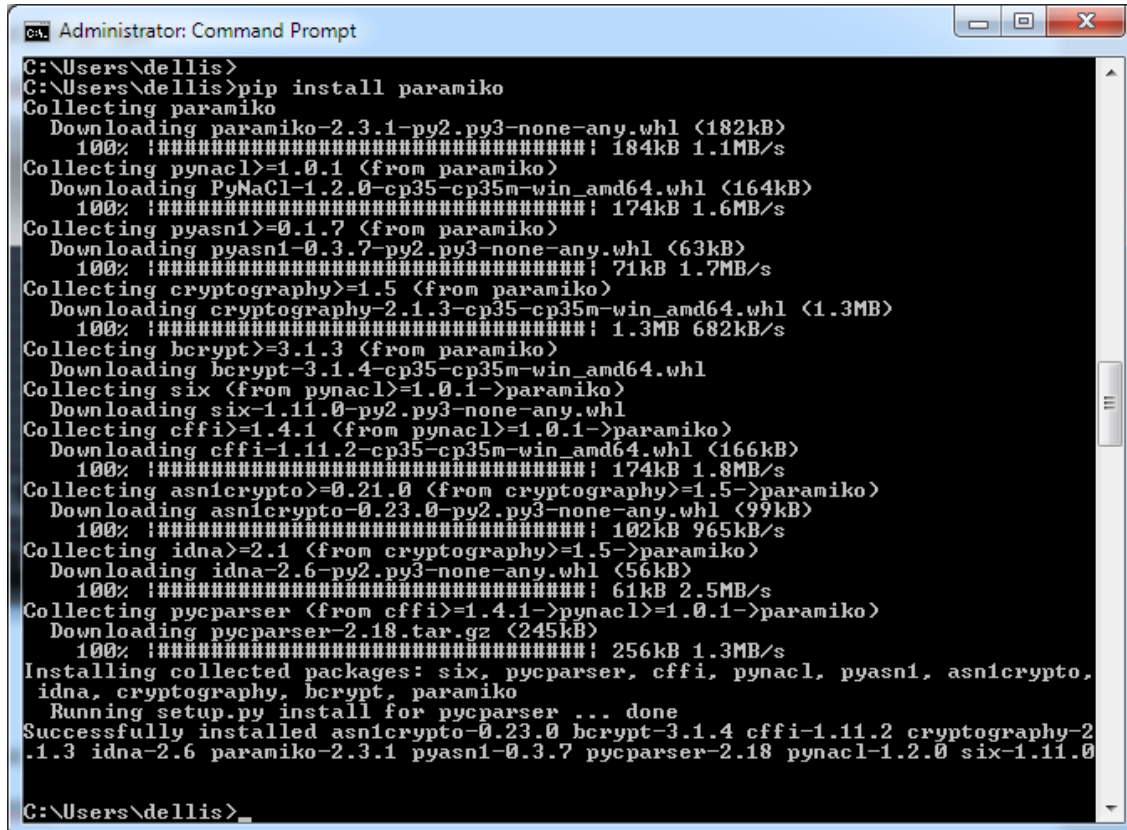


Other Tools and Frameworks		
.NET Framework	The .NET Framework helps you create mobile, desktop, and web applications that run on Windows PCs, devices and servers.	Download
Build Tools for Visual Studio 2017	These Build Tools allow you to build native and managed MSBuild-based applications without requiring the Visual Studio IDE. There are options to install the Visual C++ compilers and libraries, MPC, ATL and C++/CLI support, and .NET and .NET Core support.	Download
Microsoft Visual C++ Redistributable for Visual Studio 2017	This package installs run-time components of Visual C++ libraries and can be used to run such applications on a computer even if it does not have Visual Studio 2017 installed. Right-click on the following link to copy or bookmark this download: Microsoft Visual C++ Redistributable for Visual Studio 2017	x64 x86 Download

Paramiko

In the command prompt type

pip install paramiko

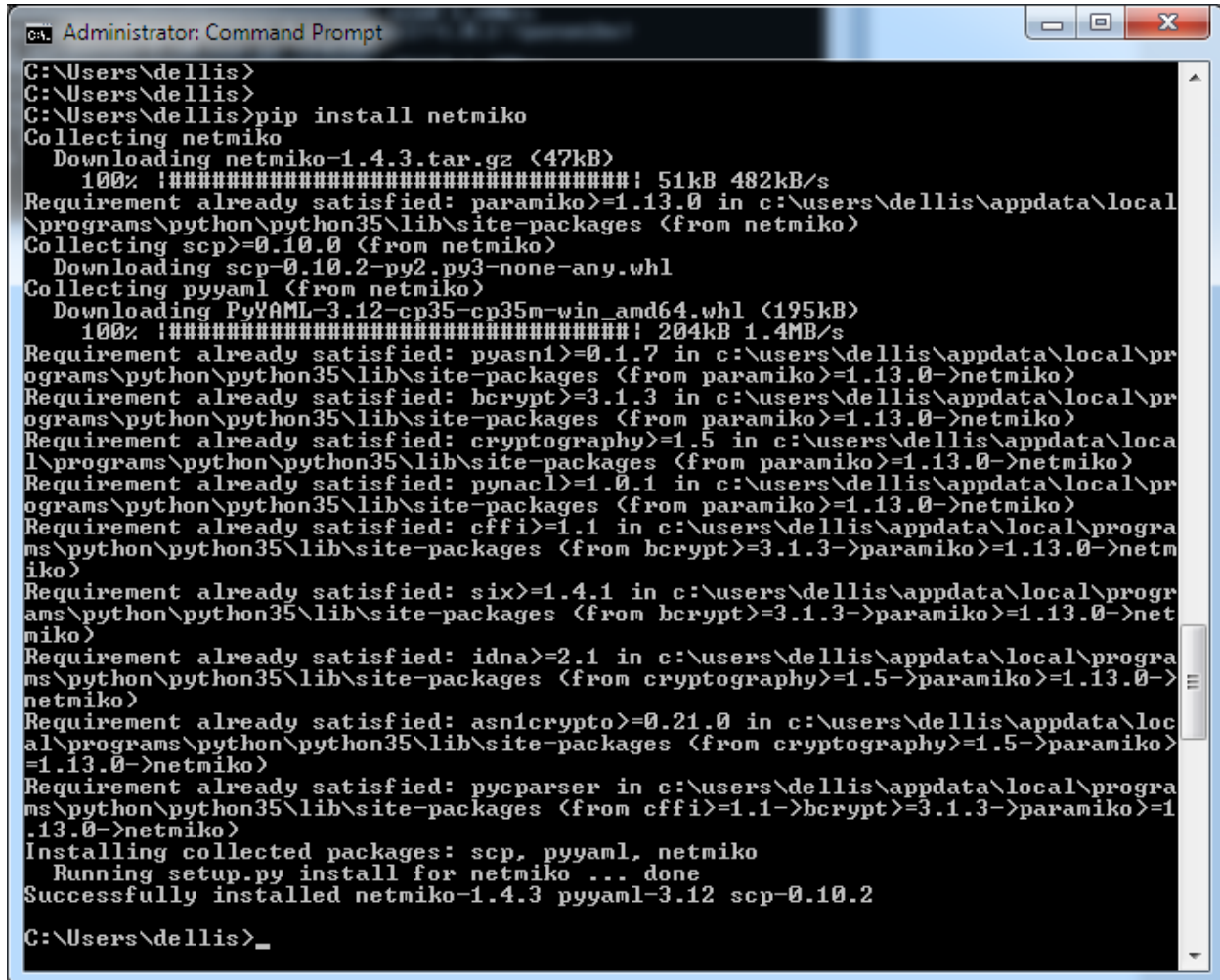


```
Administrator: Command Prompt
C:\Users\dellis>
C:\Users\dellis>pip install paramiko
Collecting paramiko
  Downloading paramiko-2.3.1-py2.py3-none-any.whl (182kB)
    100% |#####| 184kB 1.1MB/s
Collecting pynacl<=1.0.1 (from paramiko)
  Downloading PyNaCl-1.2.0-cp35-cp35m-win_amd64.whl (164kB)
    100% |#####| 174kB 1.6MB/s
Collecting pyasn1<=0.1.7 (from paramiko)
  Downloading pyasn1-0.3.7-py2.py3-none-any.whl (63kB)
    100% |#####| 71kB 1.7MB/s
Collecting cryptography>=1.5 (from paramiko)
  Downloading cryptography-2.1.3-cp35-cp35m-win_amd64.whl (1.3MB)
    100% |#####| 1.3MB 682kB/s
Collecting bcrypt>=3.1.3 (from paramiko)
  Downloading bcrypt-3.1.4-cp35-cp35m-win_amd64.whl
Collecting six (from pynacl<=1.0.1->paramiko)
  Downloading six-1.11.0-py2.py3-none-any.whl
Collecting cffi<=1.4.1 (from pynacl<=1.0.1->paramiko)
  Downloading cffi-1.11.2-cp35-cp35m-win_amd64.whl (166kB)
    100% |#####| 174kB 1.8MB/s
Collecting asn1crypto<=0.21.0 (from cryptography>=1.5->paramiko)
  Downloading asn1crypto-0.23.0-py2.py3-none-any.whl (99kB)
    100% |#####| 102kB 965kB/s
Collecting idna<=2.1 (from cryptography>=1.5->paramiko)
  Downloading idna-2.6-py2.py3-none-any.whl (56kB)
    100% |#####| 61kB 2.5MB/s
Collecting pycparser (from cffi<=1.4.1->pynacl<=1.0.1->paramiko)
  Downloading pycparser-2.18.tar.gz (245kB)
    100% |#####| 256kB 1.3MB/s
Installing collected packages: six, pycparser, cffi, pynacl, pyasn1, asn1crypto,
idna, cryptography, bcrypt, paramiko
Running setup.py install for pycparser ... done
Successfully installed asn1crypto-0.23.0 bcrypt-3.1.4 cffi-1.11.2 cryptography-2
.1.3 idna-2.6 paramiko-2.3.1 pyasn1-0.3.7 pycparser-2.18 pynacl-1.2.0 six-1.11.0
C:\Users\dellis>
```

Netmiko

In the command prompt type

pip install netmiko



```
Administrator: Command Prompt
C:\Users\dellis>
C:\Users\dellis>
C:\Users\dellis>pip install netmiko
Collecting netmiko
  Downloading netmiko-1.4.3.tar.gz (47kB)
    100% |#####| 51kB 482kB/s
Requirement already satisfied: paramiko>=1.13.0 in c:\users\dellis\appdata\local\
\programs\python\python35\lib\site-packages (from netmiko)
Collecting scp>=0.10.0 (from netmiko)
  Downloading scp-0.10.2-py2.py3-none-any.whl
Collecting pyyaml (from netmiko)
  Downloading PyYAML-3.12-cp35-cp35m-win_amd64.whl (195kB)
    100% |#####| 204kB 1.4MB/s
Requirement already satisfied: pyasn1>=0.1.7 in c:\users\dellis\appdata\local\pr
ograms\python\python35\lib\site-packages (from paramiko)=1.13.0->netmiko)
Requirement already satisfied: bcrypt>=3.1.3 in c:\users\dellis\appdata\local\pr
ograms\python\python35\lib\site-packages (from paramiko)=1.13.0->netmiko)
Requirement already satisfied: cryptography>=1.5 in c:\users\dellis\appdata\loca
l\programs\python\python35\lib\site-packages (from paramiko)=1.13.0->netmiko)
Requirement already satisfied: pynacl>=1.0.1 in c:\users\dellis\appdata\local\pr
ograms\python\python35\lib\site-packages (from paramiko)=1.13.0->netmiko)
Requirement already satisfied: cffi>=1.1 in c:\users\dellis\appdata\local\progra
ms\python\python35\lib\site-packages (from bcrypt)=3.1.3->paramiko)=1.13.0->netm
iko)
Requirement already satisfied: six>=1.4.1 in c:\users\dellis\appdata\local\progr
ams\python\python35\lib\site-packages (from bcrypt)=3.1.3->paramiko)=1.13.0->net
miko)
Requirement already satisfied: idna>=2.1 in c:\users\dellis\appdata\local\progra
ms\python\python35\lib\site-packages (from cryptography)=1.5->paramiko)=1.13.0->
netmiko)
Requirement already satisfied: asn1crypto>=0.21.0 in c:\users\dellis\appdata\loc
al\programs\python\python35\lib\site-packages (from cryptography)=1.5->paramiko)
=1.13.0->netmiko)
Requirement already satisfied: pycparser in c:\users\dellis\appdata\local\progra
ms\python\python35\lib\site-packages (from cffi)=1.1->bcrypt)=3.1.3->paramiko)=1
.13.0->netmiko)
Installing collected packages: scp, pyyaml, netmiko
  Running setup.py install for netmiko ... done
Successfully installed netmiko-1.4.3 pyyaml-3.12 scp-0.10.2

C:\Users\dellis>_
```